

**CCR Workshop 2:
Water System Data**
6/10/99

General Background:

This is a surface water system serving a population of 400 persons through 120 service connections. The system has a single conventional water treatment plant on Mary's River, one ground-level storage tank and a booster pump station.

Water System Information:

Water System Name: Epoch, XX

Address: P.O. Box 111

Epoch, XX 55555

Contact Person: Jolene Smith, Operator, (406) 123-4567

Board Meetings: First Tuesday of each month at 7:00pm, Firehall

1998 Monitoring Data:

Bacteriological Monitoring Results			
Date	Type of Sample	Number of Samples	Laboratory Result
12/21/98	routine	1	0
11/16/98	routine	1	0
10/28/98	routine	1	0
9/21/98	routine	1	0
8/18/98	routine	1	0
8/06/98	additional routine*	2	0
7/29/98	additional routine*	6	0
7/22/98	routine	1	0
6/16/98	routine	1	0
5/26/98	routine	1	0
4/14/98	routine	1	0
3/24/98	routine	1	0
2/17/98	routine	1	0
1/21/98	routine	1	0

** A TT violation occurred due to finished water exceeding 5.0 NTU in July. A Boil Water Order was issued and additional monitoring was required.*

Organic Chemical Contaminants - Sampled 12/22/98	
Contaminant(s)	Concentration Detected
All	No Detects
Inorganic Chemical Contaminants - Sampled 12/22/98	
Contaminant	Concentration Detected (mg/L)
Barium	0.060
Nitrate	0.18
Fluoride	0.22
Arsenic	0.026
Secondary Contaminants - Sampled 1/3/95	
Contaminant	Concentration Detected
Alkalinity	145
pH	7.93
Hardness	252
Sodium	42.5
Manganese	0.119
Iron	<0.01

Lead and Copper Rule Compliance		
Required Monitoring	90% Results	Comments
Reduced tap water monitoring to once per three years during June through September. Reduced monitoring began 9/30/96	Pb: 0.004 ppm Cu: 0.04 ppm	12/23/98 Pb-Cu samples not collected during required quarter and failed to collect the correct number of samples.*
Baseline Monitoring 9/30/96	Pb: 0.007 Cu: 0.03	10 tap water samples collected. None were over the action level for either contaminant.

** State will require monitoring for this compliance period during June-Sept. 1999.*

Filtration and Disinfection/Turbidity Treatment Technique Violation		
Date	Performance Information	Data
July, 1998	Filtration Effluent Turbidity Exceeded 5 NTU	Max: 12 NTU Duration Over 5 NTU: 72 hours Cause: Alum Overfeed
July, 1998	Lowest monthly percentage of samples meeting the filtered water effluent limit of 0.5 NTU or less.	Lowest monthly percentage of samples meeting the 0.5 NTU or less limit: 87% in July, 1998*
July, 1998	Lowest Monthly Percentage of Samples Meeting the 5 NTU max turbidity limit	Lowest Monthly Percentage of samples meeting the 5 NTU limit: 90% in July, 1998**

* Calculated by computing 96 hours of violation monitored at 4 hour intervals for 24 data points above 0.5 NTU. Total data points for the month is 180 (30 days times 6 data points per day if monitored every four hours). $24 = 13\%$ of 180 so the lowest monthly percentage is $100\% - 13\% = 87\%$

**Calculated by computing 72 hours of violation monitored at 4 hour intervals for 18 data points above 5 NTU. Total data points for the month is 180 (30 days times 6 data points per day if monitored every four hours). $18 = 10\%$ of 180 so the Lowest Monthly Percentage is $100\% - 10\% = 90\%$

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CCR Workshop 2: Water System Data Questions

6/10/99

For the water system data provided in Workshop 2, answer the following questions regarding data that must be reported, method of data presentation, mathematical conversions to CCR units and additional information that must be included.

1. Bacteriological Monitoring Results

- 1a. Given the data provided, indicate what, if any data must be reported in the system's CCR?

- 1b. In what format would the data be presented and how would the columns of the table be labeled, if applicable?

Contaminant					

- 1c. What, if any, additional information is required due to the monitoring results.

2. Organic Chemical Contaminant Data

- 2a. Given the data provided, indicate what, if any data must be reported in the system's CCR?

- 2b. In what format would the data be presented and how would the columns of the table be labeled, if applicable?

Contaminant							

- 2c. What, if any, additional information is required due to the monitoring results?

3. Inorganic Chemical Contaminant Data

- 3a. Given the data provided, indicate what, if any data must be reported in the system's CCR?

3b In what format would the data be presented and how would the columns be labeled, if applicable?

Contaminant							

3c. What, if any, additional information is required due to the monitoring results?

4. Lead and Copper Rule Compliance

4a. Given the data provided, indicate what, if any data must be reported in the system's CCR?

- 4b. In what format would the data be presented and how would the columns be labeled, if applicable?

Contaminant							

- 4c. What, if any, additional information is required due to the monitoring results?

5. Treatment Technique Violations and other violations of NPDWRs

- 5a. Given the data provided, indicate what, if any additional information regarding violations of NPDWR must be reported in the system's CCR? (*Use the following table or generate your own, if needed.*)
